

IN THE CLAIMS:

1. (canceled)
2. (currently amended) The ~~catalyst member~~ method of claim 36 wherein the anchor layer is deposited by electric arc spraying a metal feedstock selected from the group consisting of nickel, Ni/Al, Ni/Cr, Ni/Cr/Al/Y, Co/Cr, Co/Cr/Al/Y, Co/Ni/Cr/Al/Y, Fe/Al, Fe/Cr, Fe/Cr/Al, Fe/Cr/Al/Y, Fe/Ni/Al, Fe/Ni/Cr, 300 series stainless steels, 400 series stainless steels, and mixtures of two or more thereof.
3. (currently amended) The ~~catalyst member~~ method of claim 2 wherein the anchor layer comprises nickel and aluminum.
4. (currently amended) The ~~catalyst member~~ method of claim 3 wherein the aluminum comprises from about 3 to 10 percent of the combined weights of nickel and aluminum in the anchor layer.
5. (currently amended) The ~~catalyst member~~ method of claim 3 wherein the aluminum comprises from about 4 to 6 percent aluminum of the combined weights of nickel and aluminum in the anchor layer.
6. (currently amended) The ~~catalyst member~~ method of claim 36 wherein the catalytic material is deposited on the anchor layer and comprises a refractory metal oxide support on which one or more catalytic metal components are dispersed.
7. (currently amended) The ~~catalyst member~~ method of claim 36 comprising a substrate selected from the group consisting of metal substrates and ceramic substrates.
8. (currently amended) The method of ~~An exhaust treatment apparatus comprising the catalyst member of~~ claim 36, claim 3 or claim 4 wherein the catalyst member is connected in the exhaust flow path of an internal combustion engine to provide an

exhaust gas treatment apparatus.

9. (currently amended) The ~~apparatus~~ method of claim 8 wherein the metal substrate comprises the interior surface of a conduit through which the exhaust of an internal combustion engine is flowed prior to discharge of the exhaust.

10. (currently amended) The ~~apparatus~~ method of claim 8 wherein the carrier substrate comprises a metal substrate.

11. (currently amended) The ~~apparatus~~ method of claim 8 wherein the carrier substrate comprises a ceramic substrate.

12. – 19. (canceled)

20. (currently amended) The ~~catalyst member~~ method of claim 46 wherein the at least two substrate regions of different substrate densities have thereon different effective loadings of the catalytic material.

21. (currently amended) The ~~catalyst member~~ method of claim 36, 46 or claim 20 wherein the substrate is selected from the group consisting of foamed metal, wire mesh and corrugated foil honeycomb.

22. – 35. (canceled)

36. (previously presented) A method for treating the exhaust stream from an engine, comprising flowing the exhaust stream into contact with a catalyst member comprising:

a carrier substrate having an anchor layer disposed thereon by electric arc spraying; and
catalytic material disposed on the carrier substrate.

37. (currently amended) ~~In a motorcycle comprising an engine and an exhaust treatment apparatus, the improvement comprising that the exhaust treatment apparatus comprises a catalyst member~~ A method according to any one of claims 36, 46 or 20, wherein the catalyst member is part of a motorcycle exhaust treatment apparatus.

38. (currently amended) ~~A utility engine comprising an exhaust apparatus comprising a catalysts member~~ A method according to any one of claims 36 or 46, wherein the catalyst member is part of a utility engine exhaust apparatus.

39. (currently amended) ~~In a lawn mower comprising an engine and an exhaust treatment apparatus, the improvement comprising that the engine comprises the utility engine~~ The method of claim 38, wherein the utility engine is part of a lawn mower.

40. – 45. (canceled)

46. (currently amended) A method according to claim 36, wherein the for treating the exhaust stream from an engine, comprising flowing the exhaust stream into contact with a catalyst member comprising:
a the carrier substrate comprising comprises at least two regions of different substrate densities disposed for fluid flow from one region to the other; and
a the catalytic material is deposited on the at least two substrate regions of different surface area densities.